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01 10 Intelligenetics
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FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file 09-784340-1-075614.res made by jdelaval on Sun 2 Sep 10 10:53:12-PDT.

| | |
|--------------------------------|--------------------------|
| Query sequence being compared: | US-09-784-340-1 (1-2759) |
| Number of sequences searched: | 1 |
| Number of scores above cutoff: | 1 |

[illegible]

IntelliGenetics

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file 09-784340-1-075614.res made by jdelaval on Sun 2 Sep 10 10:53:21-PDT.

```
Query sequence being compared: US-09-784-340-1 (1-275)
Number of sequences searched: 1
Number of scores above cutoff: 1
```

Results of the initial comparison of US-09-784-340-1 (1-2759) with:
File : 075614.pep

| | | |
|-------|------|---|
| | 100 | - |
| N | - | |
| U | - | |
| M | 50- | |
| B | - | |
| E | - | |
| R | - | |
| O | - | |
| F | 10- | |
| S | - | |
| E | 5- | |
| O | - | |
| t | - | |
| E | - | |
| N | - | |
| C | - | |
| E | - | |
| S | 0- | |
| <hr/> | | |
| SCORE | 0 | |
| STDEV | 31 | |
| | 61 | |
| | 92 | |
| | 123 | |
| | 153 | |
| | 184 | |
| | .215 | |
| | 245 | |
| | 276 | |
| | * | |

| PARAMETERS | |
|---------------------|------|
| Similarity matrix | 2 |
| Translation frame | 6 |
| Mismatch penalty | 1.00 |
| Gap penalty | 0.05 |
| Gap size penalty | 1 |
| Cutoff score | 0 |
| Randomization group | 20 |
| | 32 |

SEARCH STATISTICS

| | Mean | Median | Standard Deviation |
|---------|------|--------|--------------------|
| Scores: | 275 | 0 | 0.00 |

| Times: | CPU | Total Elapsed |
|--------|-------------|---------------|
| | 00:00:00.00 | 00:00:00.00 |

```

Number of residues:      528
Number of sequences searched: 1
Number of scores above cutoff: 1

```

The scores below are sorted by initial score. Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was not found

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FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file 09-784340-1-075614.res made by jdelaval on Sun 2 Sep 101 10:53:28-PDT.

Query sequence being compared:US-09-784-340-1 (1-2759)
Number of sequences searched: 1
Number of scores above cutoff: 1

Results of the initial comparison of US-09-784-340-1 (1-2759) with:
File : 075614.pep

100-
N -
U -50-
M -
B -
E -
R -
O -
F 10-
S -
E 5-
Q -
U -
E -
C -
N -
S -
0
SCORE 0 1 2 3 4 5 6 7 8 9
STDEV

PARAMETERS
Similarity matrix Unitary 2
Translation Frame 6
Mismatch penalty 1 Joining penalty 20
Gap penalty 1.00 Window size 32
Gap size penalty 0.05
Cutoff score 1
Randomization group 0

SEARCH STATISTICS
Scores: Mean 9 Median 0 Standard Deviation 0.00
Times: CPU 00:00:00.00 Total Elapsed 00:00:00.00
Number of residues: 528
Number of sequences searched: 1
Number of scores above cutoff: 1

The scores below are sorted by initial score.
Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was not found.

The list of best scores is:

| Sequence Name | Description | Length | Score | Int. Opt. | Sign. Frame |
|---------------|-------------------------------|--------|-------|-----------|-------------|
| 1. 075614 | UDP GLUCURONOSYLTRANSFERASE 2 | 528 | 9 | 68 | 0.00 3 |

1. US-09-784-340-1 (1-2759)
075614 UDP GLUCURONOSYLTRANSFERASE 2B4 PRECURSOR.

TOIG of: 075614 check: 5913 from: 1 to: 528

ID 075614 PRELIMINARY; PRT; 528 AA.
AC 075614
DT 01-NOV-1998 (TREMblrel. 08, Created)
DT 01-NOV-1998 (TREMblrel. 08, Last sequence update)
DT 01-MAY-2000 (TREMblrel. 13, Last annotation update)
DE UDP GLUCURONOSYLTRANSFERASE 2B4 PRECURSOR.
GN UGT2B4.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=93326164; PubMed=8333863;
RA Jin C.J., Miners J.O., Lillywhite K.J., Mackenzie P.I.;
RT "CDNA cloning and expression of two new members of the human liver
RT UDP-glucuronosyltransferase 2B subfamily."
RL Blochem. Biophys. Res. Commun. 194:496-503(1993).
RN [2]
RP SEQUENCE FROM N.A.
RA Mackenzie P.I.;
RL Submitted (JUL-1998) to the EMBL/Genbank/DBJ databases.
DR EMBL; AF081793; AAC32272.1;
DR InterPro; IPR002213;
DR Pfam; PF00201; UDPGT; 1.
DR PROSITE; PS00375; UDPGT; 1.
KW Transferase.
SQ SEQUENCE 528 AA; 60497 MW; B6F5BA0705E952C4 CRC64;

075614 Length: 528 September 2, 2001 10:50 Type: P Check: 5913 ..

Initial Score = 9 Optimized Score = 68 Significance = 0.00
Residue Identity = 17% Matches = 92 Mismatches = 327
Gaps = 112 Conservative Substitutions = 0
Translation Frame= 3 X 10 20

MSMKWTSALLLIQLSCYFSSGSGCKVLYWPTFESHMWNKTIIDELVORCHEVTVLASSASISFPDNPSTL
10 20 30 40 50 60 70 80
30 40 50 60 70 80
SSVLAVDSYVK-----SNGCPYTXAIGLMSRSF--XKSSXHEM-----RQXYLIQS---LRXLTGSL
KEEVYFVSLKTEFEEDIIKQLVKRMAELKPDVFWSYLSOVQELMTFNDILRFCKDIVSNKKLMDQESR
80 90 100 110 120 130 140
90 100 110 120 130 140
LXNLMWSTICRTEOKKMKYLLTXLXMSQAY-----QPGNQLXNMKIFLLKKXELKKXCVBALSS---TIR
FDVLVADAVFPGE-----LLAEELKIPFVYSLRSPGALFKHSGGLFPFSPYPPVYVMSLSDQMTER
150 160 170 180 190 200 210
150 160 170 180 190 200 210
VKNMIVLYFEFNFQIFDKKKWQDFYSEVIGRPTTLSETMAKADWILIRNYWFO--FPHPLPWFNPFVGL
220 230 240 250 260 270 280

[illegible]

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FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file 09-784340-1-075614.res made by jdelaval on Sun 2 Sep 10 10:53:35-PDT.

| | |
|--------------------------------|--------------------------|
| query sequence being compared: | US-09-784-340-1 (1-2759) |
| Number of sequences searched: | 1 |
| Number of scores above cutoff: | 1 |

Results of the initial comparison of US-09-784-340-1 (1-2759) with:
File : 075614.pep

A bar chart showing the frequency of letters in the word 'STDEV'. The vertical axis is labeled 'SCORE' and 'STDEV' with tick marks at 0, 5, 10, 50, and 100. The horizontal axis lists the letters: S, T, D, E, V, N, C, E, N, C, E, S. The bars represent the frequency of each letter: S (1), T (1), D (1), E (2), V (2), N (3), C (3), E (4), N (4), C (4), and S (5). An asterisk (*) is placed above the bar for the final 'S'.

| Letter | Frequency |
|--------|-----------|
| S | 1 |
| T | 1 |
| D | 1 |
| E | 2 |
| V | 2 |
| N | 3 |
| C | 3 |
| E | 4 |
| N | 4 |
| C | 4 |
| S | 5 |

PARAMETERS

| | Unary | K-tuple |
|---------------------|-------|-----------------|
| Similarity matrix | 6 | 20 |
| Translation frame | 1 | Joining penalty |
| Mismatch penalty | 1.00 | Window size |
| Gap penalty | 0.05 | 32 |
| Gap size penalty | 1 | |
| Cutoff score | 0 | |
| Randomization group | 1 | |

SEARCH STATISTICS

| | | | |
|--------------------------------|-------------|--------|--------------------|
| Scores: | Mean | Median | Standard Deviation |
| | 5 | 0 | 0.00 |
| Times: | CPU | | Total Elapsed |
| | 00:00:00.00 | | 00:00:00.00 |
| Number of residues: | | 528 | |
| Number of sequences searched: | | 1 | |
| Number of scores above cutoff: | | 1 | |

The scores below are sorted by initial score.
Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was not found.

The list of best scores is:

| Sequence Name | Description | Length | Score | Opt. Sig. Frame |
|---------------|-------------------------------|--------|-------|-----------------|
| 1. 075614 | UDP GLUCURONOSYLTRANSFERASE 2 | 528 | 5 | 81 0.00 4 |

1. US-09-784-340-1 (1-2759)
075614 UDP GLUCURONOSYLTRANSFERASE 2B4 PRECURSOR.

TOIG of: 075614 check: 5913 from: 1 to: 528

ID 075614 PRELIMINARY; PRT; 528 AA.

AC 075614;
DT 01-NOV-1998 (TREMBlrel. 08, Created)
DT 01-NOV-1998 (TREMBlrel. 08, last sequence update)
DT 01-MAY-2000 (TREMBlrel. 13, last annotation update)
DE UDP GLUCURONOSYLTRANSFERASE 2B4 PRECURSOR.
CN UGT2B4.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA MEDLINE=93326164; PubMed=8333863;
RX Jin C.J., Miners J.O., Lillywhite K.J., Mackenzie P.I.;
RT "cDNA cloning and expression of two new members of the human liver
UDP-glucuronosyltransferase 2B subfamily."
RL Biochem. Biophys. Res. Commun. 194:496-503(1993).
RN [2]
RP SEQUENCE FROM N.A.
RA Mackenzie P.I.;
RL Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL: AF081793; AAC32272.1;
DR InterPro: IPR002213;
DR Pfam: PF00201; UDPGT: 1.
DR PROSITE: PS00375; UDPGT: 1.
KW Transferase.
SQ SEQUENCE 528 AA; 60497 MW; B6F5BA0705E952C4 CRC64;

075614 Length: 528 September 2, 2001 10:50 Type: P Check: 5913

Initial Score = 5 Optimized score = 81 Significance = 0.00
Residue Identity = 17% Matches = 107 Mismatches = 365
Gaps = 131 Conservative Substitutions = 0
Translation Frame= 4

```

RYVTADSVLSTIRYVTAQCCORVARNAXCCORVATXRHDSVAVNDMLRMGMTVGCORVATXRHDSVFF
      10      20      30      40      50      60      70
      80      90     100     110     120     130
FFFTPTSTSLFFYSKLYKXKXELXVFIILKNRLNVOYQAKFY-----KIRNRYNHIEFLMTYLIKTI
      140     150     160     170     180     190     200
MSMKWTSL-----LLIQ-----LSCYSSGSGCKVLWPTFESHMMNKTI
      210     220     230     240     250     260     270
X                                     20      30      40
      280     290     300     310     320     330
LELVORGHEVTVLASSASISFDPN-----SPSTLKFEVYFVSLTKTEFEDITKOLYKRAAE---LPKDT
      340     350     360     370     380     390     400
      410     420     430     440     450     460     470
      480     490     500     510     520     530     540
      550     560     570     580     590     600     610
      620     630     640     650     660     670     680
      690     700     710     720     730     740     750
      760     770     780     790     800     810     820
      830     840     850     860     870     880     890
      900     910
      920     930     940     950     960     970     980
      990     1000
      1010     1020     1030     1040     1050     1060     1070
      1080     1090     1100     1110     1120     1130     1140
      1150     1160     1170     1180     1190     1200     1210
      1220     1230     1240     1250     1260     1270     1280
      1290     1300     1310     1320     1330     1340     1350
      1360     1370     1380     1390     1400     1410     1420
      1430     1440     1450     1460     1470     1480     1490
      1500     1510     1520     1530     1540     1550     1560
      1570     1580     1590     1600     1610     1620     1630
      1640     1650     1660     1670     1680     1690     1700
      1710     1720     1730     1740     1750     1760     1770
      1780     1790     1800     1810     1820     1830     1840
      1850     1860     1870     1880     1890     1900     1910
      1920     1930     1940     1950     1960     1970     1980
      1990     2000     2010     2020     2030     2040     2050
      2060     2070     2080     2090     2100     2110     2120
      2130     2140     2150     2160     2170     2180     2190
      2200     2210     2220     2230     2240     2250     2260
      2270     2280     2290     2300     2310     2320     2330
      2340     2350     2360     2370     2380     2390     2400
      2410     2420     2430     2440     2450     2460     2470
      2480     2490     2500     2510     2520     2530     2540
      2550     2560     2570     2580     2590     2600     2610
      2620     2630     2640     2650     2660     2670     2680
      2690     2700     2710     2720     2730     2740     2750
      2760     2770     2780     2790     2800     2810     2820
      2830     2840     2850     2860     2870     2880     2890
      2900     2910     2920     2930     2940     2950     2960
      2970     2980     2990     3000     3010     3020     3030
      3040     3050     3060     3070     3080     3090     3100
      3110     3120     3130     3140     3150     3160     3170
      3180     3190     3200     3210     3220     3230     3240
      3250     3260     3270     3280     3290     3300     3310
      3320     3330     3340     3350     3360     3370     3380
      3390     3400     3410     3420     3430     3440     3450
      3460     3470     3480     3490     3500     3510     3520
      3530     3540     3550     3560     3570     3580     3590
      3600     3610     3620     3630     3640     3650     3660
      3670     3680     3690     3700     3710     3720     3730
      3740     3750     3760     3770     3780     3790     3800
      3810     3820     3830     3840     3850     3860     3870
      3880     3890     3900     3910     3920     3930     3940
      3950     3960     3970     3980     3990     4000     4010
      4020     4030     4040     4050     4060     4070     4080
      4090     4100     4110     4120     4130     4140     4150
      4160     4170     4180     4190     4200     4210     4220
      4230     4240     4250     4260     4270     4280     4290
      4300     4310     4320     4330     4340     4350     4360
      4370     4380     4390     4400     4410     4420     4430
      4440     4450     4460     4470     4480     4490     4500
      4510     4520     4530     4540     4550     4560     4570
      4580     4590     4600     4610     4620     4630     4640
      4650     4660     4670     4680     4690     4700     4710
      4720     4730     4740     4750     4760     4770     4780
      4790     4800     4810     4820     4830     4840     4850
      4860     4870     4880     4890     4900     4910     4920
      4930     4940     4950     4960     4970     4980     4990
      5000     5010     5020     5030     5040     5050     5060
      5070     5080     5090     5100     5110     5120     5130
      5140     5150     5160     5170     5180     5190     5200
      5210     5220     5230     5240     5250     5260     5270
      5280     5290     5300     5310     5320     5330     5340
      5350     5360     5370     5380     5390     5400     5410
      5420     5430     5440     5450     5460     5470     5480
      5490     5500     5510     5520     5530     5540     5550
      5560     5570     5580     5590     5600     5610     5620
      5630     5640     5650     5660     5670     5680     5690
      5700     5710     5720     5730     5740     5750     5760
      5770     5780     5790     5800     5810     5820     5830
      5840     5850     5860     5870     5880     5890     5900
      5910     5920     5930     5940     5950     5960     5970
      5980     5990     6000     6010     6020     6030     6040
      6050     6060     6070     6080     6090     6100     6110
      6120     6130     6140     6150     6160     6170     6180
      6190     6200     6210     6220     6230     6240     6250
      6260     6270     6280     6290     6300     6310     6320
      6330     6340     6350     6360     6370     6380     6390
      6400     6410     6420     6430     6440     6450     6460
      6470     6480     6490     6500     6510     6520     6530
      6540     6550     6560     6570     6580     6590     6600
      6610     6620     6630     6640     6650     6660     6670
      6680     6690     6700     6710     6720     6730     6740
      6750     6760     6770     6780     6790     6800     6810
      6820     6830     6840     6850     6860     6870     6880
      6890     6900     6910     6920     6930     6940     6950
      6960     6970     6980     6990     7000     7010     7020
      7030     7040     7050     7060     7070     7080     7090
      7100     7110     7120     7130     7140     7150     7160
      7170     7180     7190     7200     7210     7220     7230
      7240     7250     7260     7270     7280     7290     7300
      7310     7320     7330     7340     7350     7360     7370
      7380     7390     7400     7410     7420     7430     7440
      7450     7460     7470     7480     7490     7500     7510
      7520     7530     7540     7550     7560     7570     7580
      7590     7600     7610     7620     7630     7640     7650
      7660     7670     7680     7690     7700     7710     7720
      7730     7740     7750     7760     7770     7780     7790
      7800     7810     7820     7830     7840     7850     7860
      7870     7880     7890     7900     7910     7920     7930
      7940     7950     7960     7970     7980     7990     8000
      8010     8020     8030     8040     8050     8060     8070
      8080     8090     8100     8110     8120     8130     8140
      8150     8160     8170     8180     8190     8200     8210
      8220     8230     8240     8250     8260     8270     8280
      8290     8300     8310     8320     8330     8340     8350
      8360     8370     8380     8390     8400     8410     8420
      8430     8440     8450     8460     8470     8480     8490
      8500     8510     8520     8530     8540     8550     8560
      8570     8580     8590     8600     8610     8620     8630
      8640     8650     8660     8670     8680     8690     8700
      8710     8720     8730     8740     8750     8760     8770
      8780     8790     8800     8810     8820     8830     8840
      8850     8860     8870     8880     8890     8900     8910
      8920     8930     8940     8950     8960     8970     8980
      8990     9000     9010     9020     9030     9040     9050
      9060     9070     9080     9090     9100     9110     9120
      9130     9140     9150     9160     9170     9180     9190
      9200     9210     9220     9230     9240     9250     9260
      9270     9280     9290     9300     9310     9320     9330
      9340     9350     9360     9370     9380     9390     9400
      9410     9420     9430     9440     9450     9460     9470
      9480     9490     9500     9510     9520     9530     9540
      9550     9560     9570     9580     9590     9600     9610
      9620     9630     9640     9650     9660     9670     9680
      9690     9700     9710     9720     9730     9740     9750
      9760     9770     9780     9790     9800     9810     9820
      9830     9840     9850     9860     9870     9880     9890
      9900     9910     9920     9930     9940     9950     9960
      9970     9980     9990     10000

```

```

PGYAIKHSGLLEPPSPVYVVM-----SELSD-QMTFIERV---KNMIYVLYEEFWMFOIPDMKMD
      180      190      200      210      220      230
      240      250      260      270      280      290
      300      310      320      330      340      350
      360      370      380      390      400      410
      420      430      440      450      460      470
      480      490      500      510      520      530
      540      550      560      570      580      590
      600      610      620      630      640      650
      660      670      680      690      700      710
      720      730      740      750      760      770
      780      790      800      810      820      830
      840      850      860      870      880      890
      900      910      920      930      940      950
      960      970      980      990      1000
      1010     1020     1030     1040     1050     1060
      1070     1080     1090     1100     1110     1120
      1130     1140     1150     1160     1170     1180
      1190     1200     1210     1220     1230     1240
      1250     1260     1270     1280     1290     1300
      1310     1320     1330     1340     1350     1360
      1370     1380     1390     1400     1410     1420
      1430     1440     1450     1460     1470     1480
      1490     1500     1510     1520     1530     1540
      1550     1560     1570     1580     1590     1600
      1610     1620     1630     1640     1650     1660
      1670     1680     1690     1700     1710     1720
      1730     1740     1750     1760     1770     1780
      1790     1800     1810     1820     1830     1840
      1850     1860     1870     1880     1890     1900
      1910     1920     1930     1940     1950     1960
      1970     1980     1990     2000     2010     2020
      2030     2040     2050     2060     2070     2080
      2090     2100     2110     2120     2130     2140
      2150     2160     2170     2180     2190     2200
      2210     2220     2230     2240     2250     2260
      2270     2280     2290     2300     2310     2320
      2330     2340     2350     2360     2370     2380
      2390     2400     2410     2420     2430     2440
      2450     2460     2470     2480     2490     2500
      2510     2520     2530     2540     2550     2560
      2570     2580     2590     2600     2610     2620
      2630     2640     2650     2660     2670     2680
      2690     2700     2710     2720     2730     2740
      2750     2760     2770     2780     2790     2800
      2810     2820     2830     2840     2850     2860
      2870     2880     2890     2900     2910     2920
      2930     2940     2950     2960     2970     2980
      2990     3000     3010     3020     3030     3040
      3050     3060     3070     3080     3090     3100
      3110     3120     3130     3140     3150     3160
      3170     3180     3190     3200     3210     3220
      3230     3240     3250     3260     3270     3280
      3290     3300     3310     3320     3330     3340
      3350     3360     3370     3380     3390     3400
      3410     3420     3430     3440     3450     3460
      3470     3480     3490     3500     3510     3520
      3530     3540     3550     3560     3570     3580
      3590     3600     3610     3620     3630     3640
      3650     3660     3670     3680     3690     3700
      3710     3720     3730     3740     3750     3760
      3770     3780     3790     3800     3810     3820
      3830     3840     3850     3860     3870     3880
      3890     3900     3910     3920     3930     3940
      3950     3960     3970     3980     3990     4000
      4010     4020     4030     4040     4050     4060
      4070     4080     4090     4100     4110     4120
      4130     4140     4150     4160     4170     4180
      4190     4200     4210     4220     4230     4240
      4250     4260     4270     4280     4290     4300
      4310     4320     4330     4340     4350     4360
      4370     4380     4390     4400     4410     4420
      4430     4440     4450     4460     4470     4480
      4490     4500     4510     4520     4530     4540
      4550     4560     4570     4580     4590     4600
      4610     4620     4630     4640     4650     4660
      4670     4680     4690     4700     4710     4720
      4730     4740     4750     4760     4770     4780
      4790     4800     4810     4820     4830     4840
      4850     4860     4870     4880     4890     4900
      4910     4920     4930     4940     4950     4960
      4970     4980     4990     5000     5010     5020
      5030     5040     5050     5060     5070     5080
      5090     5100     5110     5120     5130     5140
      5150     5160     5170     5180     5190     5200
      5210     5220     5230     5240     5250     5260
      5270     5280     5290     5300     5310     5320
      5330     5340     5350     5360     5370     5380
      5390     5400     5410     5420     5430     5440
      5450     5460     5470     5480     5490     5500
      5510     5520     5530     5540     5550     5560
      5570     5580     5590     5600     5610     5620
      5630     5640     5650     5660     5670     5680
      5690     5700     5710     5720     5730     5740
      5750     5760     5770     5780     5790     5800
      5810     5820     5830     5840     5850     5860
      5870     5880     5890     5900     5910     5920
      5930     5940     5950     5960     5970     5980
      5990     6000     6010     6020     6030     6040
      6050     6060     6070     6080     6090     6100
      6110     6120     6130     6140     6150     6160
      6170     6180     6190     6200     6210     6220
      6230     6240     6250     6260     6270     6280
      6290     6300     6310     6320     6330     6340
      6350     6360     6370     6380     6390     6400
      6410     6420     6430     6440     6450     6460
      6470     6480     6490     6500     6510     6520
      6530     6540     6550     6560     6570     6580
      6590     6600     6610     6620     6630     6640
      6650     6660     6670     6680     6690     6700
      6710     6720     6730     6740     6750     6760
      6770     6780     6790     6800     6810     6820
      6830     6840     6850     6860     6870     6880
      6890     6900     6910     6920     6930     6940
      6950     6960     6970     6980     6990     7000
      7010     7020     7030     7040     7050     7060
      7070     7080     7090     7100     7110     7120
      7130     7140     7150     7160     7170     7180
      7190     7200     7210     7220     7230     7240
      7250     7260     7270     7280     7290     7300
      7310     7320     7330     7340     7350     7360
      7370     7380     7390     7400     7410     7420
      7430     7440     7450     7460     7470     7480
      7490     7500     7510     7520     7530     7540
      7550     7560     7570     7580     7590     7600
      7610     7620     7630     7640     7650     7660
      7670     7680     7690     7700     7710     7720
      7730     7740     7750     7760     7770     7780
      7790     7800     7810     7820     7830     7840
      7850     7860     7870     7880     7890     7900
      7910     7920     7930     7940     7950     7960
      7970     7980     7990     8000     8010     8020
      8030     8040     8050     8060     8070     8080
      8090     8100     8110     8120     8130     8140
      8150     8160     8170     8180     8190
```



```

CKPAKPIPKKKKEFVSSGNGVVFSL-----GSMVSN-----SEERANV-----IASALAKIPQVLMR
290      300      310      320      330      340
-----SVMPYRHFHFOPIVXDQXCVKCRRA-YLNKRRKIMLITSCXHRMLXFWFTEFCEFYI---F
210      220      230      240      250      260
FDGKRPDLGLNTRIKYKIMPNNDLGHKTRAFITHGANGIYEAI---YHGIPVGVPLADOPDNIAHMK
340      350      360      370      380      390      400
270      280      290      300      310      320
YFTSMCKHQSNAVCSPPYHL-----RLEKXXRHGNSDIRNKRKIMVSCPCVTKKKEKRVSTPRKM
111      111      111      111      111      111
AKGAVALSDPFTMS-----STDLLNMLKTVINDPLKENAMKLSRIHHQOPVKPLRAVFWIE---FVVRHKG
410      420      430      440      450      460      470
330      340      350      360      370      380      390
RKNEIYSOPHGHGILGYIAKIKXONRXYENSKVPTKF---YVAGINRITPQSLXIMWDLPFLFSSIKF
111      111      111      111      111      111
AK-HLRVAHDLTWFOY-----HSLDVTGFLACAVATVIFI-----ITKCLF-----CVMKF
480      490      500      510      520      530
400      410      420      430      440      450      460
-LTGKXKTFCEOEYSSCHTGOEPNHIYRVLEPGEVNGSXQVLGSFVAHDKLDPEDCSIXGLYRLIMVNS
111      111      111      111      111      111
VRTGKKKKRD
520      X
470      480      490      500      510      520      530
XXSHSILFIRIGINDCSOSPOXIFACHSEFVYFYSFGLHVSYYIKILTKYGNSHHNDPMVNSFIDPIHST
540      550      560      570      580      590      600
MSDKFSGFGMTKKILGLPIQPSIGSCGWFSPVPPXHLMLDGGKXNDISLFCNILEKQXPORKHHNT
610      620      630      640      650      660      670
IFPXTLDKIFHFLROSFRFTYQSSNKLKVLWLKKEKIPICSYXPIYLSFSHSLTXCSGSPSXCILTKLPK
680      690      700      710      720      730      740      750
MIVVLINPEVEQNKKHXLFFYSQKSHSVXCXCHRRRYIGKWSMKFPPLASLHASYRNSKCEHKRDKOLSHQ
760      770      780      790      800      810      820
VSTGNHRYKHYIVVGFLLKRLIVDAKALTHHXSSEYFNKKIIXFYNKXLPQXXAMODIOSXNKKYIEFF
830      840      850      860      870      880      890
CSVLNMDHLKFOCRRLPVNXXRLXVSOQCYLMASHVELFYNDLDIKPMAHVTGPBODPTESTANDELO
900
EOKYQS

```

> O <
O/I/O Intelligenetics
> O <

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file 09-784340-1-o75614.res made by jdelaval on Sun 2 Sep 101 10:53:50-PDT.

Query sequence being compared: US-09-784-340-1 (1-2759)
Number of sequences searched: 1
Number of scores above cutoff: 1

Results of the initial comparison of US-09-784-340-1 (1-2759) with:
File : o75614.pep

```

100-
N -
U -
M -
B -
R -
O -
F 10-
S -
E 5-
O -
U -
E -
N -
C -
E -
S 0-
SCORE 0 1 2 3 4 5 6 7
STDEV

```

PARAMETERS

| | | | |
|---------------------|---------|-----------------|----|
| Similarity matrix | Unitary | K-tuple | 2 |
| Translation frame | 6 | | |
| Mismatch penalty | 1 | Joining penalty | 20 |
| Gap penalty | 1.00 | Window size | 32 |
| Gap size penalty | 0.05 | | |
| Cutoff score | 1 | | |
| Randomization group | 0 | | |

SEARCH STATISTICS

| | | | |
|--------------------------------|-------------|--------|--------------------|
| Scores: | Mean | Median | Standard Deviation |
| | 7 | 0 | 0.00 |
| Times: | CPU | | Total Elapsed |
| | 00:00:00.00 | | 00:00:00.00 |
| Number of residues: | | 528 | |
| Number of sequences searched: | | 1 | |
| Number of scores above cutoff: | | 1 | |

The scores below are sorted by initial score.
Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was not found.

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